

## **ABSTRACT**

A system and method for assigning and managing a mobile IP in an access node for communicating with a mobile node supporting IP version 6 5 (IPv6) technology, assigning an IPv6 address to the mobile node, and using a dual stack transition mechanism capable of providing an IP version 4 (IPv4) address upon receiving an IPv4 address request from the mobile node, and a border router for interfacing between an IPv4 native network and an IPv6 native network.